



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

### Raynor Garage Doors

1101 East River Road, P.O. Box 448

Dixon, IL 61021

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

#### DESCRIPTION: Decade II Steel Sectional Garage Door up to 18'-0" Wide

**APPROVAL DOCUMENT:** Drawing No. **P-3303**, titled "Spec. Wind Load Decade II 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/2008, with last revision C dated 11/18/2008, prepared by Raynor Garage Doors, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 08-0709.09 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



*[Signature]*  
07/23/2012

NOA No. 12-0517.08

Expiration Date: December 24, 2013

Approval Date: August 2, 2012

Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS “Submitted under NOA # 08-0709.09”**


1. Drawing No. **P-3303**, titled “Spec. Wind Load Decade II 18’-0” wide max. door width”, sheets 1 through 3 of 3, dated 01/04/2008, with last revision C dated 11/18/2008, prepared by manufacturer, signed and sealed by Richard A. Baumann, P.E.

**B. TESTS “Submitted under NOA # 10-0420.03”**

1. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two 16’x 7’ Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.

**“Submitted under NOA # 08-0709.09”**

2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an 18’x 8’ Decade II Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0104-08**, dated 03/12/2008, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an 18’x 7.5’ Decade II Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0205-08**, dated 03/12/2008, signed and sealed by Vinu J. Abraham, P.E.
4. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. **0156Q**, dated 04/01/2008, signed and sealed by Ramesh Patel, P.E.
5. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 09/25/2008, signed and sealed by Richard A. Baumann, P.E.

  
07/23/2012

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 12-0517.08  
Expiration Date: December 24, 2013  
Approval Date: August 2, 2012

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS “Submitted under NOA # 08-0709.09”**

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 05/16/2008, signed and sealed by Richard A. Baumann, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 2007 and 2010 FBC, issued by Wendler Engineering Services, Inc., dated 05/14/2012, signed and sealed by Richard A. Baumann, P.E.

***“Submitted under NOA # 08-0709.09”***

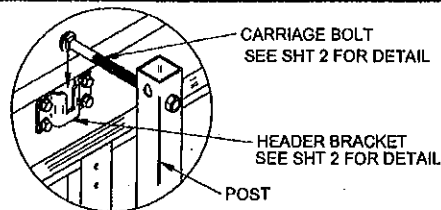
2. Statement letter of code conformance issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.
3. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.



07/23/2012

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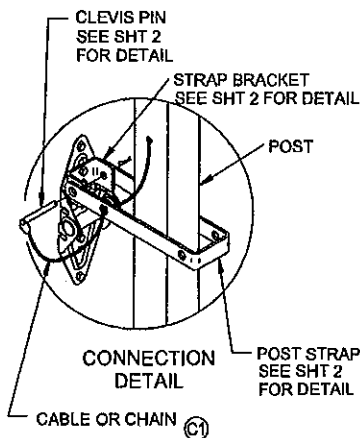
Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 12-0517.08  
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POST ENGAGEMENT  
HEADER CONNECTION DETAIL

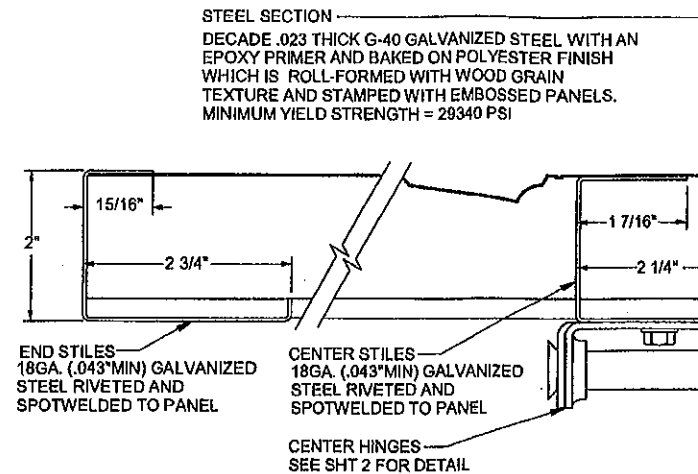
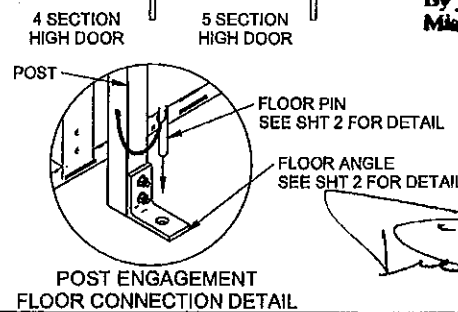
Approved as complying with the  
Florida Building Code  
Date 12/24/2008  
NOAH 08-0707-09  
Miami Dade Product Control  
Division

POST LENGTH =  
DOOR HEIGHT + 5 1/4"



POST STRAPS AND CLEVIS PINS  
TO BE CHAINED OR CABLED TO  
THE POST AND THE POST IS  
CABLED OR CHAINED TO THE  
STRUCTURE FOR STORAGE  
PURPOSES ONLY

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0517-08  
Expiration Date 12/24/2013  
By [Signature]  
Miami Dade Product Control



DOOR HEIGHT	TOP SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	BOTTOM SECTION
6' - 8"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"
6' - 8"	19 1/16"	19 1/16"	19 1/16"	19 1/16"	19 1/2"
6' - 9"	22 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"
7' - 0"	22 1/2"	19 1/2"	19 1/2"	19 1/2"	22 1/2"
7' - 6"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"
8' - 0"	19 1/16"	19 1/16"	19 1/16"	19 1/16"	19 1/16"

SPRING COUNTERBALANCE  
SPRING WIRE INDIVIDUALLY  
CALCULATED TO  
COUNTERBALANCE DOOR  
QUANTITY AND SIZE OF  
SPRINGS WILL VARY

TOP FIXTURE  
FASTENED WITH (3)  
1/4" X 5/8" SHEET METAL  
SCREWS. SEE SHT 2 FOR  
DETAILS

STEEL U-BAR  
REINFORCEMENT  
FASTENED TO ALL CENTER  
AND END STILES USING (2)  
1/4" X 5/8" SHEET METAL  
SCREWS AT EACH LOCATION.  
SEE SHT 2 FOR DETAILS

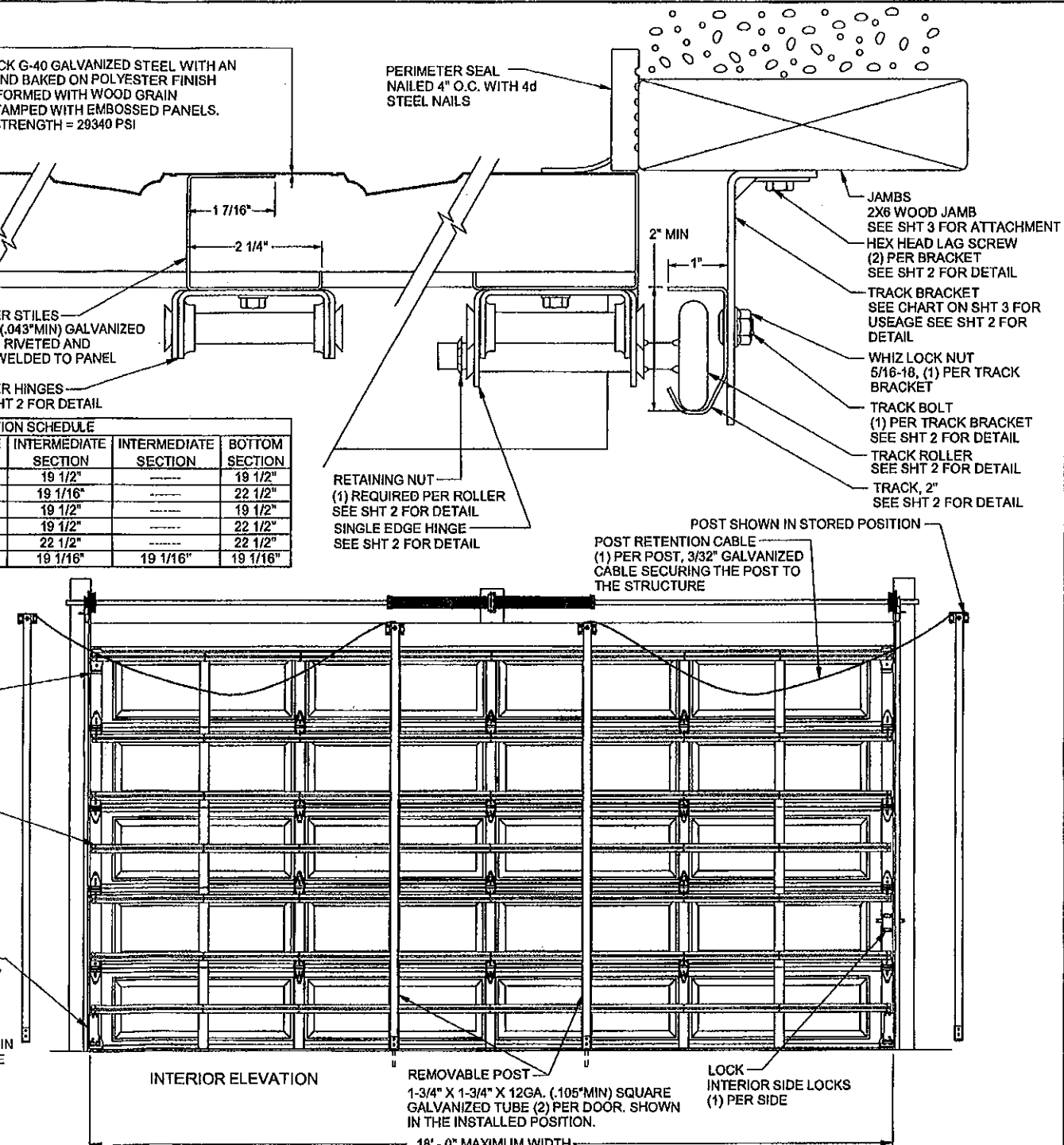
CORNER BRACKET  
FASTENED WITH (4) 1/4" X 5/8"  
SHEET METAL SCREWS.  
SEE SHT 2 FOR DETAIL

VENTS (OPTIONAL)  
OPENINGS MAY BE LOCATED IN  
DOOR AS REQUIRED BY CODE

DOORS TESTED PER TAS 202 FOR  
STATIC AIR PRESSURE

TESTED PER TAS 201, TAS 203  
FOR  
LARGE MISSILE IMPACT AND  
CYCLIC WIND PRESSURE

DESIGN PRESSURE +45.3 / -51.2

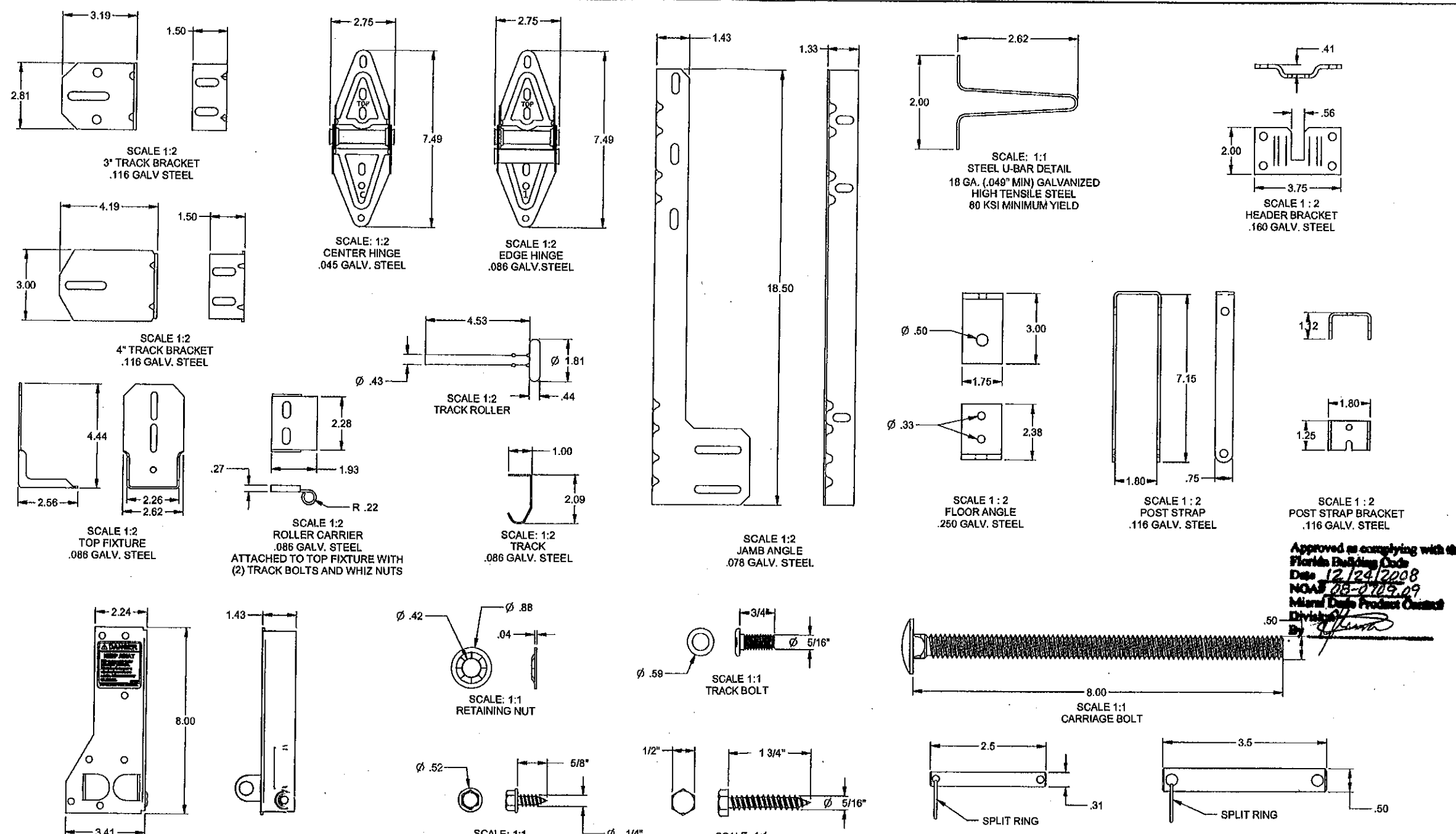


REV.	DESCRIPTION	ECO	DATE	ECO
C	(1) ADDED CABLE / CHAIN NOTE, (2) CHANGED TO HEADLESS CLEVIS PIN AND ADDED SPLIT RING	6587.001	11/18/08	
B	TESTED TO DADE CO PROTOCOLS, ADDED SHT 2 & 3	6318.001	08/29/08	
A	PRODUCTION RELEASE	6242.001	02/28/07	

SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 01/04/08
ECO:




TITLE: SPEC, WINDLOAD DECADE II 18'-0" WIDE MAX. DOOR WIDTH
NO. P-3303
SHEET 1 OF 3
REV C

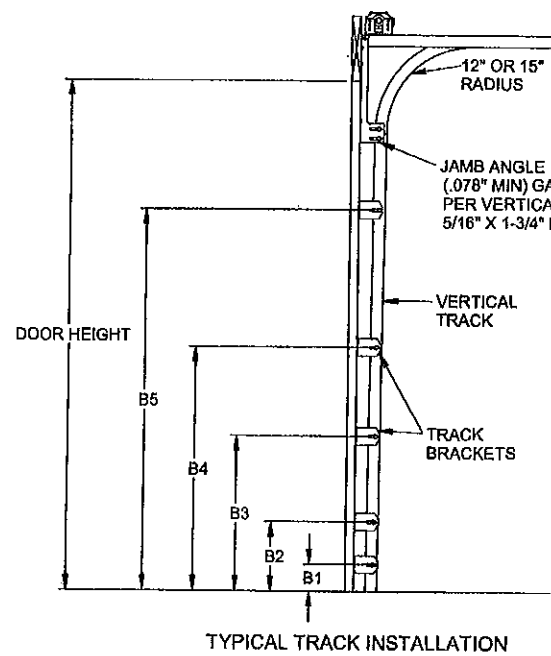


Approved as complying with the  
Florida Building Code  
Date 12/24/2008  
NOA 08-0709.09  
Miami Dade Product Control  
Division

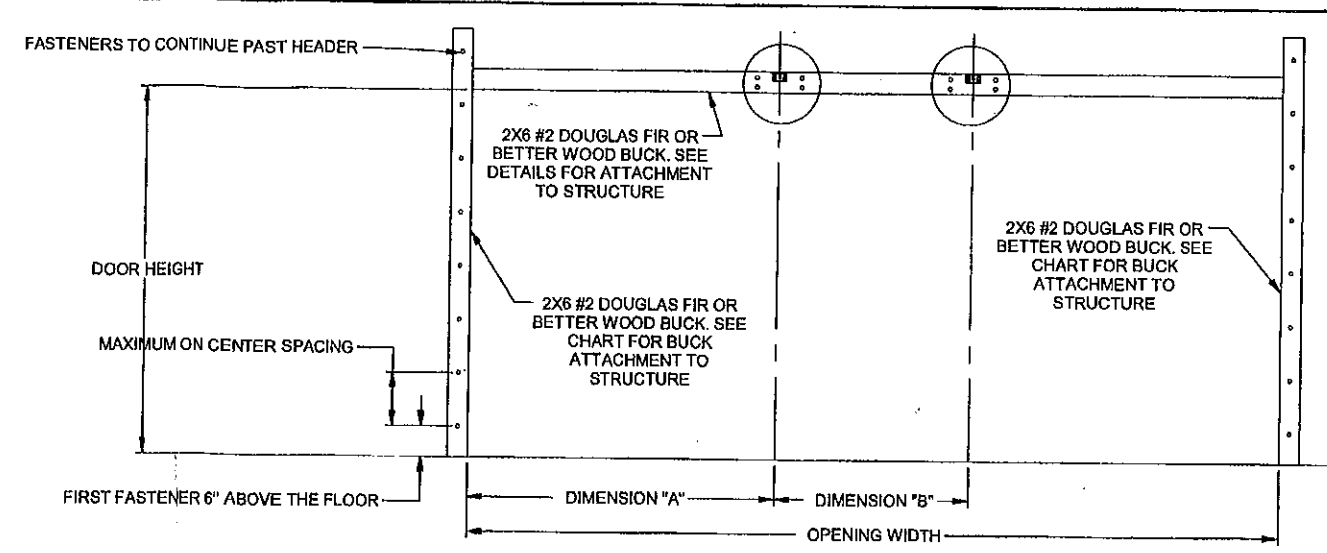
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0517.08  
Expiration Date 12/24/2013  
By *[Signature]*  
Miami Dade Product Control

*[Signature]*  
11-19-08

				SCALE: NONE	 1101 EAST RIVER ROAD DOXON, L. 61021	TITLE: SPEC. WINDLOAD DECADE II 18'-0" WIDE MAX. DOOR WIDTH		
				DRAWN BY: G. WEDEKIND				
				CHECKED BY: G. WEDEKIND		NO. P-3303	SHEET 2 OF 3	REV C
				DATE: 01/04/08				
REV.	DESCRIPTION	ECO	DATE	ECO:				



TRACK BRACKET SPACING					
DOOR HEIGHT	B1	B2	B3	B4	B5
6' - 6"	3"	12"	30"	48"	---
6' - 8"	3"	12"	30"	48"	---
6' - 9"	3"	12"	30"	48"	---
7' - 0"	3"	12"	30"	48"	63"
7' - 6"	3"	12"	30"	48"	69"
8' - 0"	3"	12"	30"	48"	75"

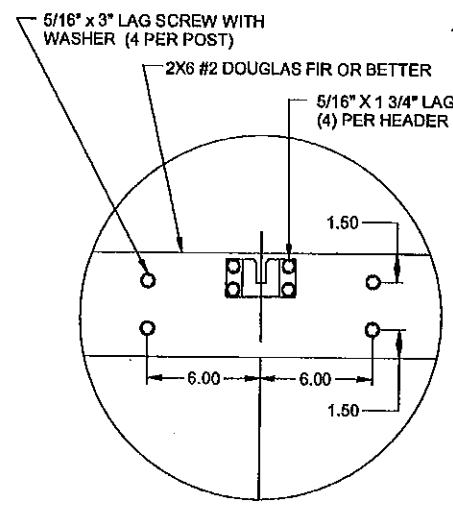


**PRODUCT REVISED**  
 as complying with the Florida Building Code  
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 Expiration Date 12/24/2013  
 By [Signature]  
 Miami Dade Product Control

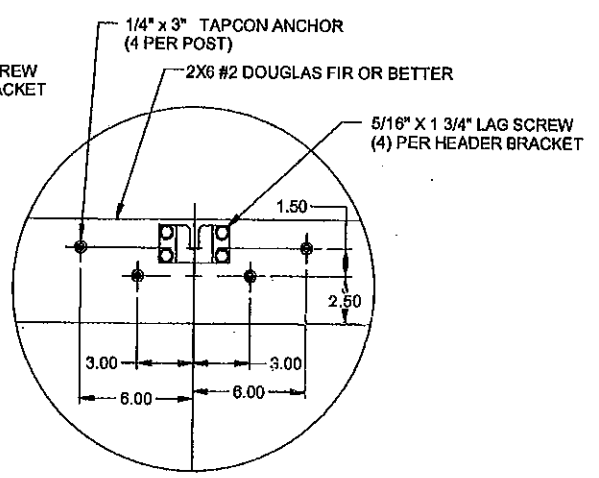
Approved as complying with the Florida Building Code  
 Date 12/24/2008  
 By [Signature]  
 Miami Dade Product Control

- JAMB ATTACHMENT NOTES**
- 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
  - 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
  - FASTENER SPACING BASED ON 18" WIDE DOOR.
  - DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED ON THIS DRAWING.

DOOR WIDTH	DOOR HEIGHT	LOAD PER JAMB		LOAD AT POST HEADER		LOAD AT POST		DIMENSI ON "A" INCHES	DIMENSI ON "B" INCHES	DESIGN PRESSURE POS	DESIGN PRESSURE NEG	TOTAL DOOR LOAD	
		POS	NEG	POS	NEG	POS	NEG					POS	NEG
10	7	450	509	568	642	568	642	34.06	51.88	45.3	51.2	3171	3584
	7.5	482	545	608	688	608	688					3398	3840
	8	514	581	649	733	649	733					3624	4096
12	7	648	733	827	909	827	909	49.06	45.88	45.3	51.2	3805	4301
	7.5	695	785	872	960	872	960					4077	4608
	8	741	837	927	1010	927	1010					4349	4915
14	7	787	867	948	1021	948	1021	58.06	51.88	45.3	51.2	4439	5018
	7.5	822	929	1000	1078	1000	1078					4757	5376
	8	877	991	1060	1138	1060	1138					5074	5734
15	7	807	912	988	1058	988	1058	61.06	57.88	45.3	51.2	4757	5376
	7.5	864	977	1042	1115	1042	1115					5096	5760
	8	922	1042	1108	1178	1108	1178					5436	6144
16	7	965	1072	1140	1208	1140	1208	73.06	45.88	45.3	51.2	5074	5734
	7.5	1034	1169	1232	1298	1232	1298					5436	6144
	8	1103	1247	1308	1374	1308	1374					5798	6554
17	7	1045	1181	1245	1308	1245	1308	79.06	45.88	45.3	51.2	5391	6093
	7.5	1119	1265	1328	1390	1328	1390					5776	6528
	8	1194	1349	1410	1472	1410	1472					6161	6963
18	7	1084	1225	1285	1348	1285	1348	82.06	51.88	45.3	51.2	5708	6451
	7.5	1162	1313	1372	1434	1372	1434					6116	6812
	8	1239	1400	1458	1520	1458	1520					6523	7373



WOOD FRAME CONSTRUCTION



2000 PSI CONCRETE MINIMUM

JAMB MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE	ALLOWABLE TENSION	MAXIMUM ON CENTER
GROUT FILLED BLOCK	5/16" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	4"	487	37 3/4"
3182 PSI CONCRETE	1/4" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	1"	510	39 3/4"
2899 PSI CONCRETE	5/16" DIA X 3 3/4" LONG ITW TAPCON	2 1/4"	1 9/16"	713	55 1/2"
2000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	360	28"
4000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	570	44 1/4"
WOOD DOUGLAS FIR (G=48)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	353	22 1/2"
WOOD SYP (G=55)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	460	35 3/4"

[Signature]  
 11-19-08

REV.	DESCRIPTION	ECO	DATE

SCALE: NONE

DRAWN BY: G. WEDEKIND

CHECKED BY: G. WEDEKIND

DATE: 01/04/08

ECO:

**RAYNOR**

1101 EAST RIVER ROAD  
DUCK, N.C. 28521

TITLE:  
SPEC, WINDLOAD DECADE II  
18'-0" WIDE MAX. DOOR WIDTH

NO. P-3303

SHEET  
3 OF 3

REV  
C